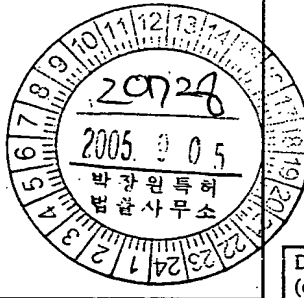


# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

## PCT

To:  
PARK Jang-Won  
Jewoo Bldg. 5th Floor, 200,  
Nonhyun-Dong, Gangnam-Gu  
135-010 Seoul  
Republic of Korea



### NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) (PCT Rule 71.1)

Date of mailing  
(day/month/year) 30 August 2005 (30.08.2005)

Applicant's or agent's file reference  
PA/LGE/03488

#### IMPORTANT NOTIFICATION

International application No.  
PCT/KR 2003/002684

International filing date (day/month/year)  
8 December 2003 (08.12.2003)

Priority Date (day/month/year)  
7 January 2003 (07.01.2003)

Applicant  
LG ELECTRONICS INC.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/AT  
Austrian Patent Office  
Dresdner Straße 87  
A-1200 Vienna/Austria  
FAX No. +43 / 1 / 53424-200

Authorized officer

HOFBAUER

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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PA/LGE/03488</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR 2003/002684</b>	International filing date ( <i>day/month/year</i> ) <b>8 December 2003 (08.12.2003)</b>	Priority Date ( <i>day/month/year</i> ) <b>7 January 2003 (07.01.2003)</b>
International Patent Classification (IPC) or national classification and IPC  <b>IPC<sup>7</sup>: F24F 13/28, 1/00</b>		
Applicant <b>LG ELECTRONICS INC.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of   3   sheets, including this cover sheet.  
  
☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:
  - ☒ Basis of the opinion
  - ☐ Priority
  - ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Lack of unity of invention
  - ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☐ Certain documents cited
  - ☐ Certain defects in the international application
  - ☐ Certain observations on the international application

Date of submission of the demand  <b>04.08.2004</b>	Date of completion of this report  <b>9 August 2005 (09.08.2005)</b>
Name and mailing address of the IPEA/AT Austrian Patent Office Dresdner Straße 87 A-1200 Vienna Facsimile No. 1/53424/200	Authorized officer  <b>LOSENICKY G.</b>  Telephone No. 1/53424/372

Form PCT/IPEA/409 (cover sheet) (July 1998)

**I. Basis of the report****1. With regard to the elements of the international application:\***

☒ the international application as originally filed

☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under Article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

**2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**

☐ contained in the international application in printed form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

**4. ☐ The amendments have resulted in the cancellation of:**

☐ the description, pages \_\_\_\_\_.

☐ the claims, Nos. \_\_\_\_\_.

☐ the drawings, sheets/fig \_\_\_\_\_.

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental-Box (Rule 70.2(c)).\*\***

*\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).*

*\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.*

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
T/KR 2003/002684

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement Novelty (N)	Claims 1-14	YES
	Claims ----	NO
Inventive step (IS)	Claims 1-14	YES
	Claims ----	NO
Industrial applicability (IA)	Claims 1-14	YES
	Claims ----	NO

### Citations and explanations (Rule 70.7)

The following documents have been cited in the Search Report:

D1: JP03030847A  
D2: JP09313855A  
D3: JP2001276649A

Documents D1 to D3 represent several prior art

Yet neither the references alone nor in combination do teach or suggest the subject-matter of present independent claims 1 and 8 like the features concerning a plasma air dust collector comprising a first electrode fixing unit having a dust collecting electrode power terminal, a second electrode fixing unit arranged with a certain distance from the first electrode fixing unit, at least two dust collecting electrodes as electric conductors installed between the first electrode fixing unit and the second electrode fixing unit in the length direction and connected to the dust collecting electrode power and a discharge electrode as an electric conductor arranged between the dust collecting electrodes in the length direction and connected to the discharge electrode power terminal in order to apply a high voltage.

Dependent claims 2 to 7 and 9 to 14 show preferred realisations of independent claims 1 and 8.

In conclusion, claims 1 to 14 can be considered to be new and to involve an inventive step.

Industrial applicability is given.